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(54) Title: PHARMACEUTICAL COMPOSITIONS OF INSULIN DRUG-OLIGOMER CONJUGATES AND METHODS OF TREATING DISEASES THEREWITH

(57) Abstract: Pharmaceutical compositions that include an insulin drug-oligomer conjugate, a fatty acid component, and a bile salt component are described. The insulin drug is covalently coupled to an oligomeric moiety. The fatty acid component and the bile salt component are present in a weight-to-weight ratio of between 1:5 and 5:1. Methods of treating an insulin deficiency in a subject in need of such treatment using such pharmaceutical compositions are also provided, as are methods of providing such pharmaceutical compositions.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/28429

A. CLASSIFICATION OF SUBJECT MATTER																				
IPC(7) : A61K 38/28; C07K 14/62 US CL : 514/3; 530/303																				
According to International Patent Classification (IPC) or to both national classification and IPC																				
B. FIELDS SEARCHED																				
Minimum documentation searched (classification system followed by classification symbols) U.S. : 514/3, 4; 530/303, 304, 305																				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched																				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet																				
C. DOCUMENTS CONSIDERED TO BE RELEVANT																				
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.																		
X	US 4,156,719 A (SEZAKI ET AL) 29 May 1979 (29/05/79), see entire document, especially the Abstract, Experiment 1.	51-53																		
Y		1-50																		
X,P	US 2002/0018811 A1 (PENTEADO ET AL) 14 February 2002 (14/02/02), see entire document, especially paragraph 98.	51																		
A	JP 52057313 A (YAMANOUCHI PHARM CO LTD) 11 May 1977 (11/05/77), see entire document.	1-53																		
Y	WO 00/078302 A1 (PROTEIN DELIVERY, INC.) 28 December 2000 (28/12/00), see entire document, especially page 8, line 6 - page 11, line 26, page 38, line 1 - page 39, line 18.	1-50																		
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>		See patent family annex.																		
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INTERNATIONAL SEARCH REPORT

PCT/US02/28429

Continuation of B. FIELDS SEARCHED Item 3:

EAST, DIALOG

search terms: insulin, conjugate, fatty acid, oleic, capric, lauric, bile, cholic, cholate, deoxycholate

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